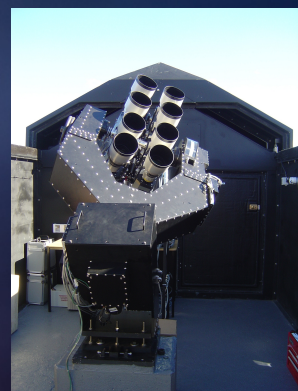
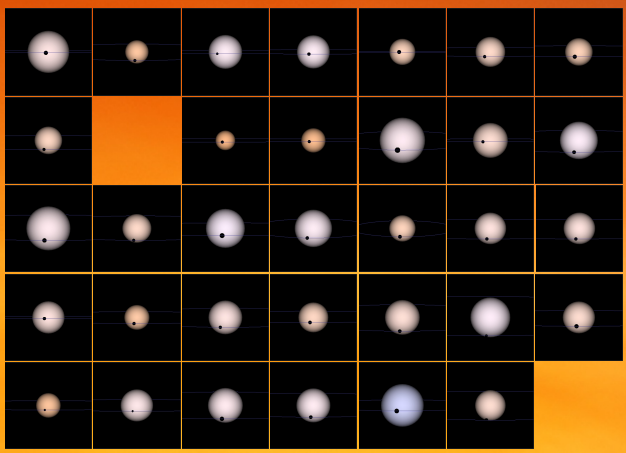


David R. Anderson - Keele University, SuperWASP Consortium

Discovery and characterisation of transiting extrasolar planets



WASP has found more than thirty planets



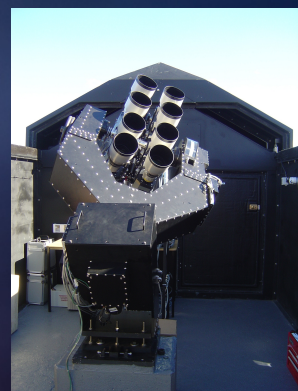
I have been involved in each step of the planet discovery process, from observatory construction to radial velocity confirmation

Whilst continuing with that, I am working on further characterisation

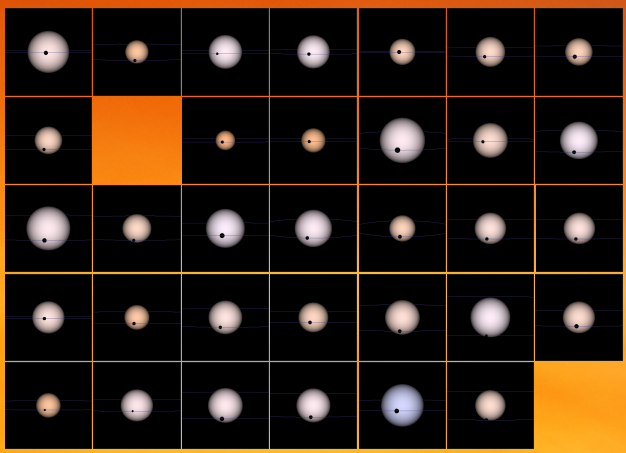


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Discovery and characterisation of transiting extrasolar planets



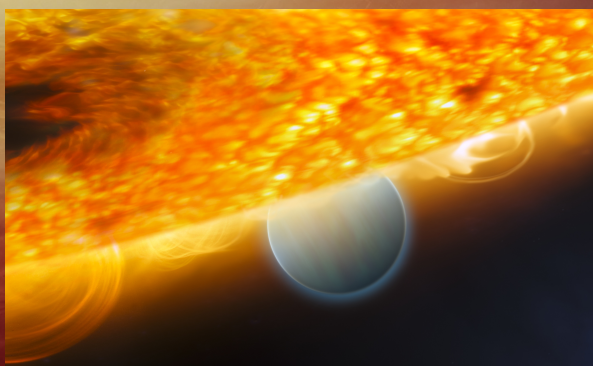
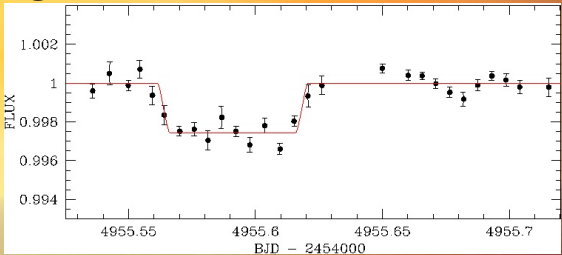
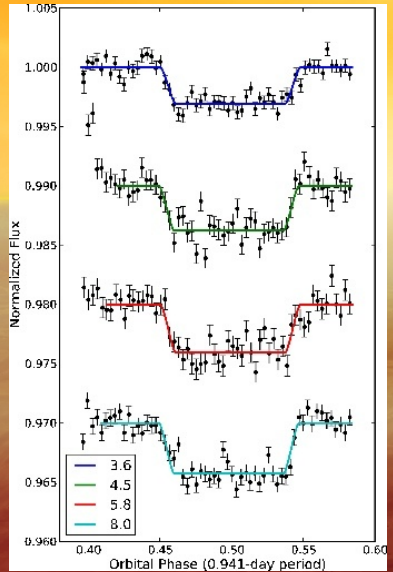
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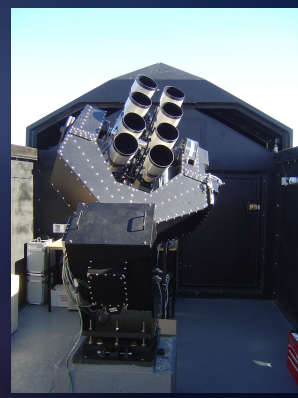
space-based occultations ground-based occultations



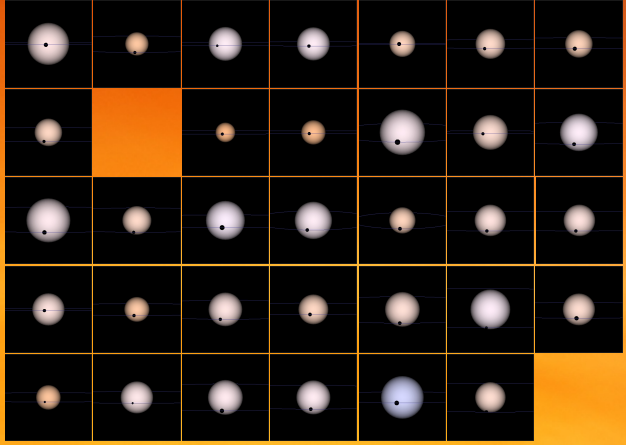
ESA, NASA, M. Kornmesser and STScI

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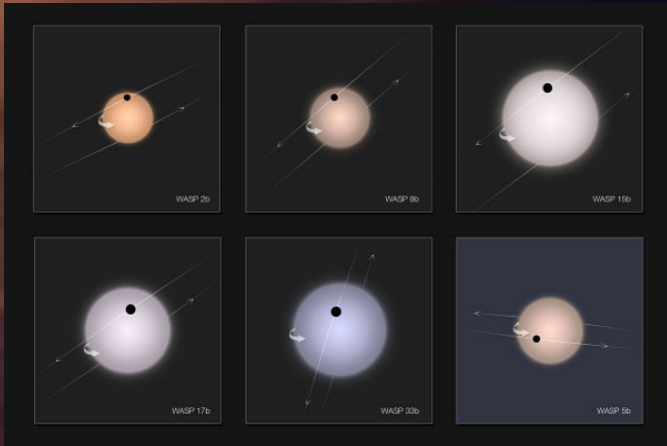


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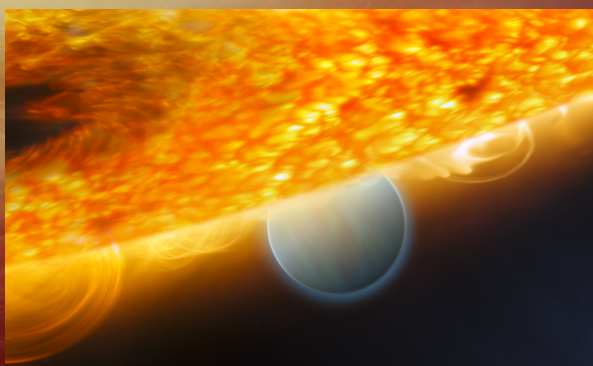
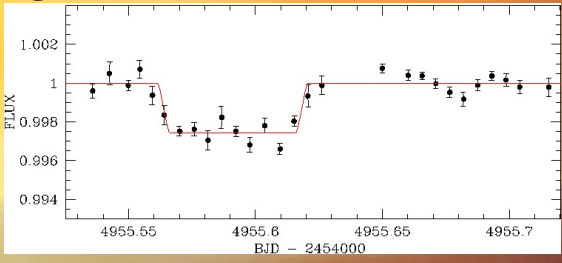
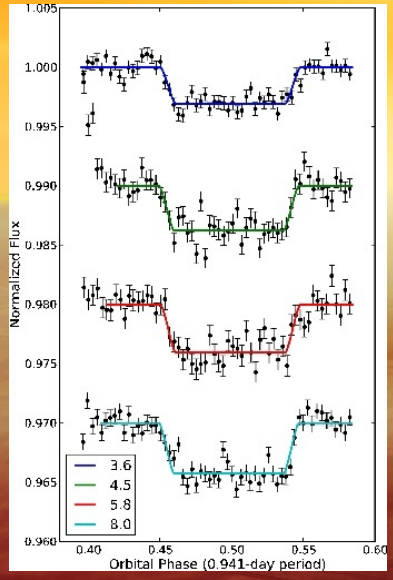
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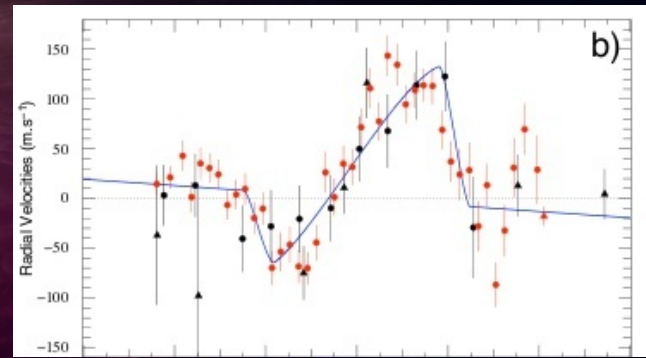
spin-orbit angles



space-based occultations ground-based occultations



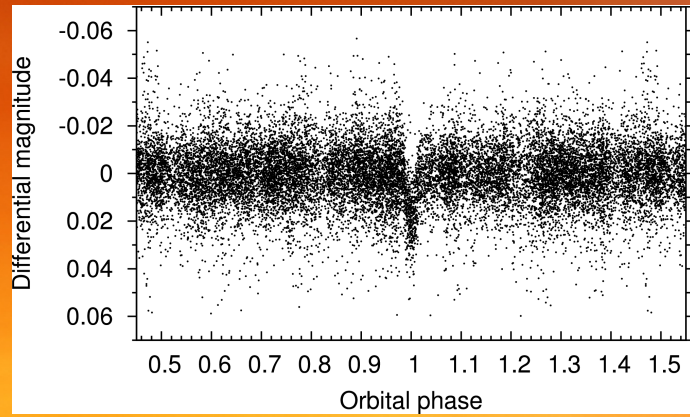
ESA, NASA, M. Kornmesser and STScI



WASP-31b - a new planet

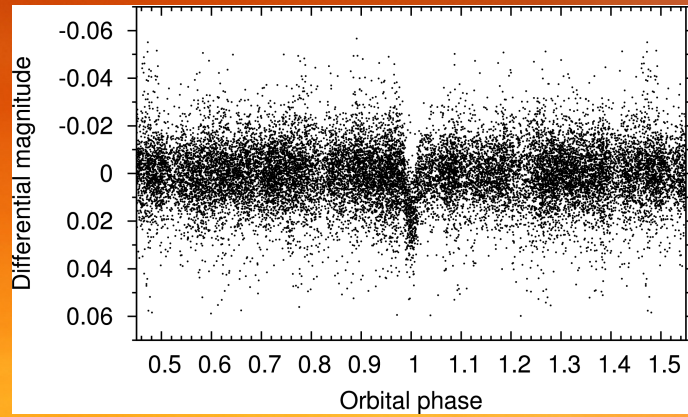


WASP-31b - a new planet

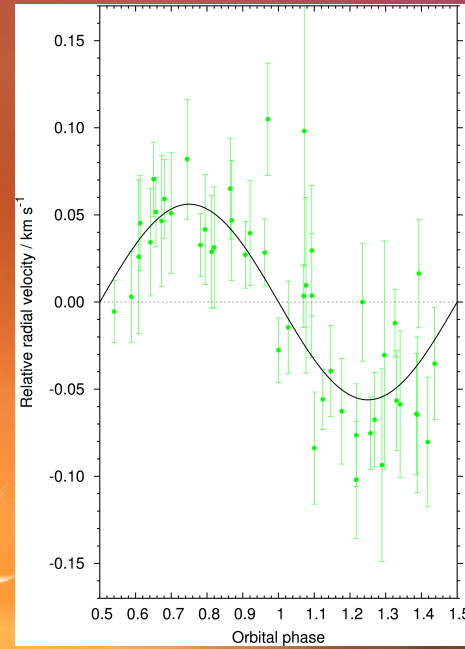


folded light curve → period of ~3.5 days

WASP-31b - a new planet



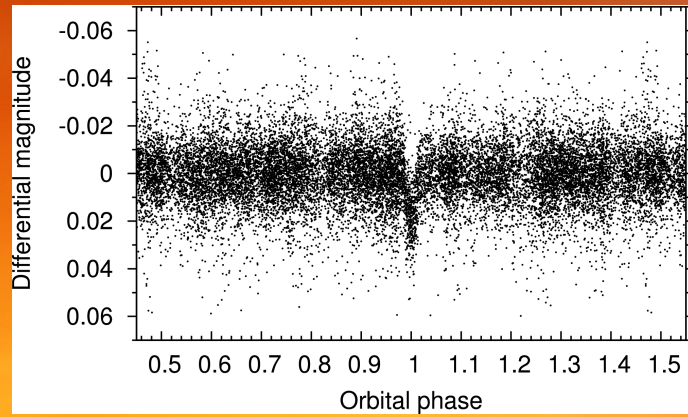
folded light curve → period of ~3.5 days



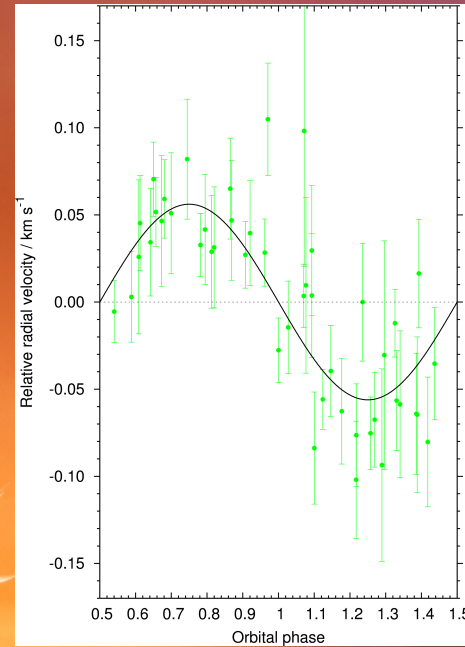
radial velocities

→ mass of $\sim 0.5 M_{Jup}$

WASP-31b - a new planet

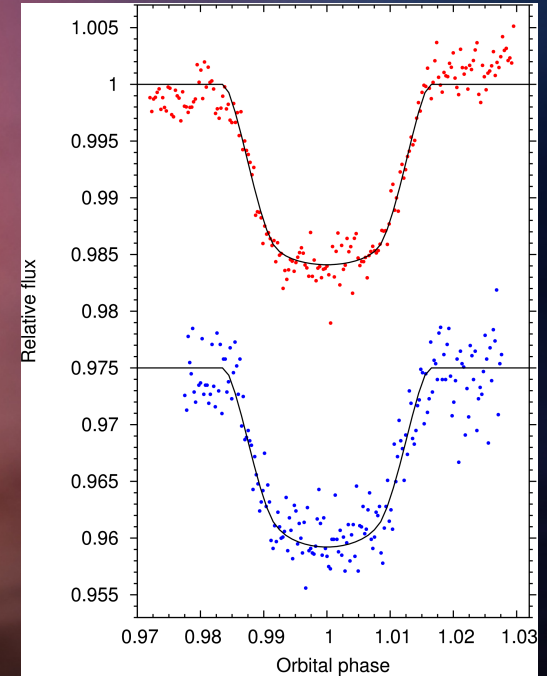


folded light curve → period of ~3.5 days



radial velocities

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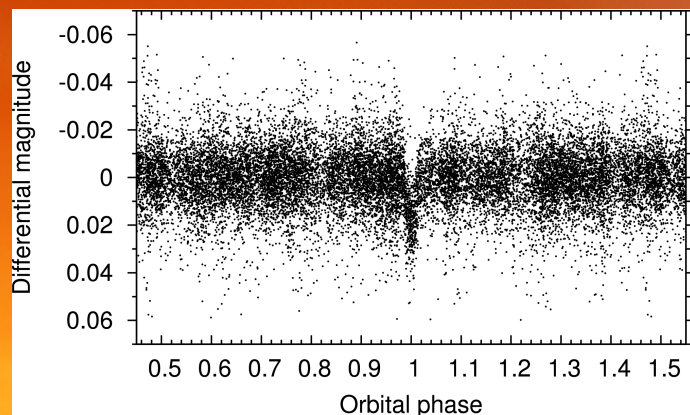


high S/N light curves

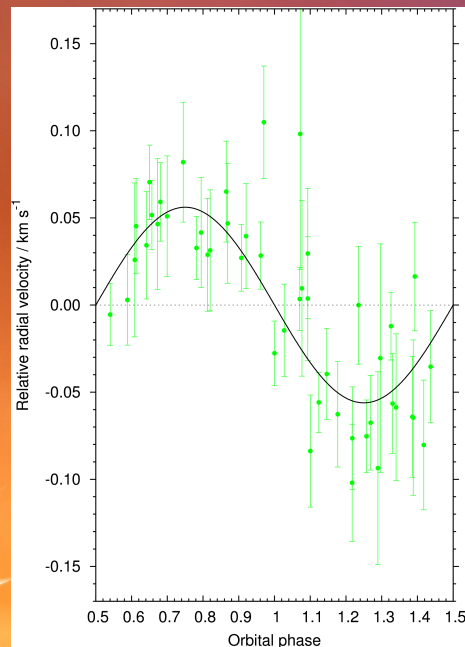
→ radius of $\sim 1.6 R_{Jup}$

→ density of $\sim 0.12 \rho_{Jup}$

WASP-31b - a new planet

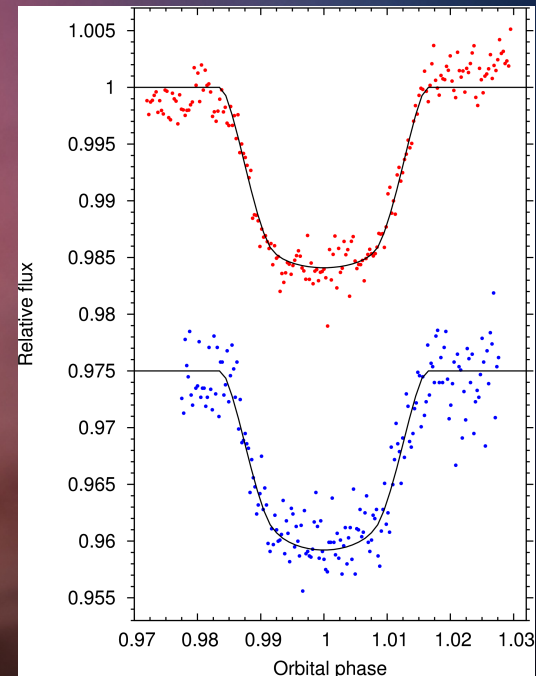


folded light curve → period of ~3.5 days



radial velocities

→ mass of $\sim 0.5 M_{Jup}$



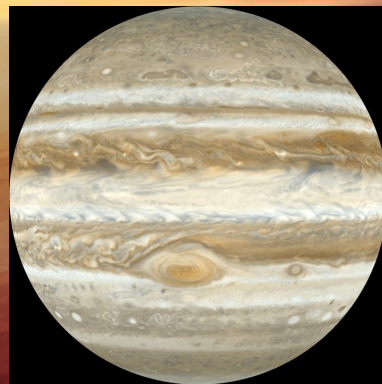
high S/N light curves

→ radius of $\sim 1.6 R_{Jup}$

→ density of $\sim 0.12 \rho_{Jup}$



WASP-31b



Jupiter

WASP-31b: a bloated, short-period, giant planet orbiting a sub-solar metallicity F-type star